```
#
/*
 *
 *      UNIX debugger
 *
 */

#include "defs.h"


MSG             BADNAM;
MSG             BADMAG;

MAP             txtmap;
MAP             datmap;
SYMSLAVE        *symvec;
INT             wtflag;
INT             fcor;
INT             fsym;
L_INT           maxfile;
L_INT           maxstor;
L_INT           txtsiz;
L_INT           datsiz;
L_INT           datbas;
L_INT           stksiz;
STRING          errflg;
INT             magic;
L_INT           symbas;
L_INT           symnum;
L_INT           entrypt;

INT             argscount;
INT             sigsno;
POS  unsigned   corhdr[512];
POS             *endhdr =&corhdr[512];

STRING          symfil  "a.out";
STRING          corfil  "core";

#define TXTHDRSIZ       (sizeof(txthdr))

setsym()
{
        INT             relflg;
        INT             symval, symflg;
        SYMSLAVE        *symptr;
        SYMPTR          symp;
        TXTHDR          txthdr;

        fsym=setfile(symfil,1);
        txtmap.ufd=fsym;
        IF read(fsym, txthdr, TXTHDRSIZ)==TXTHDRSIZ
        THEN    magic=txthdr[0];
                IF magic!=0411 ANDF magic!=0410 ANDF magic!=0407 ANDF magic!=0405
                THEN    magic=0;
                ELSE    symnum=txthdr[4]/SYMTABSIZ;
                        txtsiz=txthdr[1];
                        datsiz=txthdr[2];
                        symbas=txtsiz+datsiz;
```

Cray

Geri

Core

p/fpd/tb/core 6/20

p/psd/aid/core 5sp 5

p/ksh/Ed 5sp 7

p/sa/sz/ 8/22

p/yacc/sum/core 9/8

```
                        txtmap.b1=0;
                        txtmap.e1=(magic==0407?symbas:txtsiz);
                        txtmap.f1 = TXTHDRSIZ;
                        txtmap.b2=datbas=(magic==0410?round(txtsiz,TXTRNDSIZ):0);
                        txtmap.e2=txtmap.b2+(magic==0407?symbas:datsiz);
                        txtmap.f2 = TXTHDRSIZ+(magic==0407?0:txtmap.e1);
                        entrypt=txthdr[5];
                        relflg=txthdr[7];
                        IF relflg!=1 THEN symbas =<< 1; FI
                        symbas += TXTHDRSIZ;

                        /* set up symvec */
                        symvec=sbrk(shorten((1+symnum))*sizeof (SYMSLAVE));
                        IF (symptr=symvec)==-1
                        THEN    printf("%s\n",BADNAM);
                                symptr=symvec=sbrk(sizeof (SYMSLAVE));
                        ELSE    symset();
                                WHILE (symp=symset()) ANDF errflg==0
                                DO  symval=symp->symv; symflg=symp->symf;
                                    symptr->valslave=symval;
                                    symptr->typslave=SYMTYPE(symflg);
                                    symptr++;
                                OD
                        FI
                        symptr->typslave=ESYM;
                FI
        FI
        IF magic==0 THEN txtmap.e1=maxfile; FI
}

setcor()
{
        fcor=setfile(corfil,2);
        datmap.ufd=fcor;
        IF read(fcor, corhdr, ctob(USIZE))==ctob(USIZE)
        THEN    txtsiz = corhdr->u_tsize << 6;
                datsiz = corhdr->u_dsize << 6;
                stksiz = corhdr->u_ssize << 6;
                datmap.b1 = datbas = (magic==0410?round(txtsiz,TXTRNDSIZ):0);
                datmap.e1=(magic==0407?txtsiz:datmap.b1)+datsiz;
                datmap.f1 = ctob(USIZE);
                datmap.b2 = maxstor-stksiz;
                datmap.e2 = maxstor;
                datmap.f2 = ctob(USIZE)+(magic==0410?datsiz:datmap.e1);
                IF magic ANDF magic!=corhdr[0].u_exdata.ux_mag
                THEN    printf("%s\n",BADMAG);
                FI
        ELSE    datmap.e1 = maxfile;
        FI
}

create(f)
STRING  f;
{       int fd;
        IF (fd=creat(f,0644))>=0
        THEN close(fd); return(open(f,wtflag));
        ELSE return(-1);
        FI
}

setfile(filnam,cnt)
```

```
STRING  filnam;
{
        REG INT         fsym;

        IF !eqstr('-',filnam)
        THEN    fsym=open(filnam,wtflag);
                IF fsym<0 ANDF argcount>cnt
                THEN    IF wtflag
                        THEN    fsym=create(filnam);
                        FI
                        IF fsym<0
                        THEN printf("cannot open `%s'\n", filnam);
                        FI
                FI
        ELSE    fsym = -1;
        FI
        return(fsym);
}
```